

**Remarks**

Upon entry of the foregoing amendments, Claims 1-9 are pending. Applicants amend Claims 1 and 7 and cancel Claim 6. In view of the amendments and following remarks, Applicants respectfully request reconsideration by the Examiner, and advancement of the application to allowance.

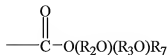
**35 U.S.C. § 102(b) and § 103(a) under Carter**

The Examiner rejects Claims 1-9 under 35 U.S.C. § 102(b) as anticipated by or, in the alternative under 35 U.S.C. § 103(a) as obvious, over U.S. Patent No. 6,017,994, listing Carter et al. as inventors (hereinafter "Carter").

Carter discloses water soluble polymers having pendant derivatized amide functionalities for scale inhibition (Carter, Col. 2, Line 65 to Col. 3, Line 2).

Claim 1, as amended, discloses a composition of matter useful as a detergent which comprises "ii) a second monomer, which is prepared from a polyethylene glycol having a methyl end cap and an ethylenically-unsaturated monomer selected from the group consisting of: acrylic acid and methacrylic acid."

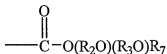
Claim 7, as amended, discloses a composition useful as a detergent which comprises a formula wherein "R<sub>5</sub> is H and R<sub>6</sub> is



in which R<sub>7</sub> is selected from the group consisting of: hydrogen, methyl, and ethyl."

Applicants' support for such amendments can be found on page 9, lines 6-14; page 11, line 8 to page 12, line 9; and page 16, Example 5 of Applicants' Application.

Applicants respectfully submit that the cited reference fails to disclose each and every element of Applicants' invention. Carter fails to teach a composition of matter useful as a detergent which comprises "ii) a second monomer, which is prepared from a polyethylene glycol having a methyl end cap and an ethylenically-unsaturated monomer selected from the group consisting of: acrylic acid and methacrylic acid," as recited in amended Claim 1. Carter also fails to teach a composition useful as a detergent which comprises a formula wherein "R<sub>5</sub> is H and R<sub>6</sub> is



in which R<sub>7</sub> is selected from the group consisting of: hydrogen, methyl, and ethyl," as recited by amended Claim 7. The cited reference fails to disclose the recited limitations and therefore cannot anticipate Claims 1 and 7.

Applicants respectfully submit that the cited reference further fails to teach, suggest or make obvious any claim of Applicants' invention. Carter only teaches reacting the "A) a mer unit of formula (I). . . [with] B) a mer unit selected from the group consisting of acrylic acid, methacrylic acid, acrylamide, methacrylamide, maleic anhydride, itaconic acid, vinyl sulfonic acid, styrene sulfonate, N-tertbutylacrylamide, butoxymethylacrylamide, N,N-dimethylacrylamide, sodium acrylamidomethyl propane sulfonic acid, vinyl alcohol, vinyl acetate, N-vinyl pyrrolidone, maleic acid, and combinations thereof." (Carter, Col. 3, Line 51 to Col. 4, Line 12).

Applicants argue that Carter fails to teach or suggest reacting the acrylic acid or methacrylic acid with a polyethylene glycol having a H, methyl, or ethyl end cap. Rather, Carter only teaches using "polymers having pendant derivatized amide functionalities for scale inhibition (Carter, Col. 3, Lines 1-2, underlining added for emphasis). Carter teaches using "amide mer units which are functionalized with pendant groups. . .and that "[t]hese pendant groups confer favorable properties to the polymer for use as scale inhibitors. (Carter, Col. 6, Lines 63-66). Carter further teaches, "[a]lternatively, pendant groups could be introduced into the polymer after polymerization. For example, polyacrylic acid could be amidated with an ethoxylated/propoxylated amine. . .to produce a polymer with a hydrophilic backbone and ethyleneoxy/propyleneoxy pendant groups. (Carter, Col. 7, Lines 6-11). These teachings of Carter only point to adding pendant groups to the amide portion of the mer. Carter does not teach modifying the acrylic acid or methacrylic acid with pendant groups such as polyethylene glycol having a H, methyl, or ethyl end cap. For the above reasons, Applicants argue that Carter does not teach, suggest or make obvious Applicants' invention.

Given that Claims 2-5 depend from Claim 1 and Claims 8-9 depend from Claim 7, Applicants respectfully submit that Claims 2-5 and 8-9 are allowable. Accordingly, applicants respectfully request that the Examiner reconsider, withdraw the rejection and allow Claims 1-5 and 7-9.

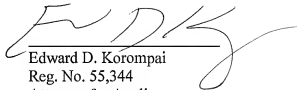
**Conclusion**

In view of the foregoing amendments and remarks, Applicants respectfully submit that the application is now in condition for allowance, and respectfully request issuance of a Notice of Allowance directed towards the pending Claims.

Should any fees be due in connection with the filing of this document, the Commissioner for Patents is hereby authorized to deduct said fees from Huntsman Corporation Deposit Account No. 08-3442.

Please date stamp and return the enclosed postcard acknowledging receipt of this material.

Respectfully Submitted,

  
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